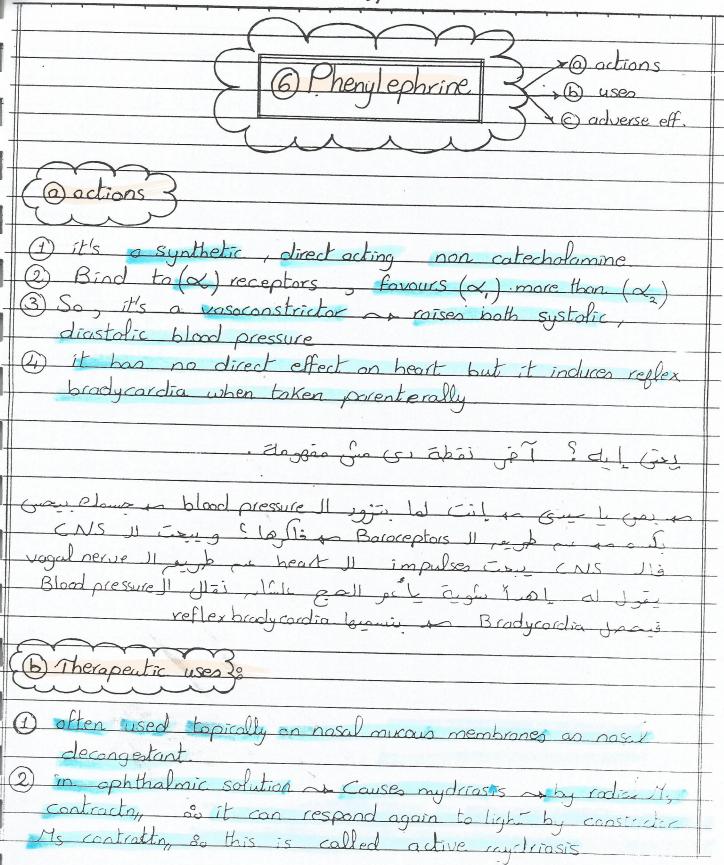


| impactant advantage |
|--|
| HR I will be view COP II in sympathomemetic drugs |
| HR II 1957 la vie co COP II Ces li Cista en Guale Con en |
| |
| Strakvolumell Cop il Strakvolumell Cop |
| |
| Challatine Engage all in a alla a con a la 110 11 |
| chall slipe & Joan all a sale suit in HR II who could be a suit of the II who could be a suit of |
| oxygen demand II ICIL ozile Li UII as on a Cost size de la Cos |
| ال منامة القلي نفسها مايزيسان مه ويه طبيًا في طالة إم إنا يلوس |
| Coronary arteries 113 alling (circ |
| القلب تفسي السالم تنفنى والسائلة في السائلة |
| The state of the s |
| CO Adverse effects ? |
| |
| Deshould be used with caution in Case of atrial fibrillating |
| |
| ventricles il Gulegi la Atria Il & Oui fibrillato, Il Mila Gra |
| S 19 Fibrillaton, Il a Cale Gay |
| 2) Tolerance may develop on prolonged use |
| ming develop on prolonged use |
| (3) other 1 M. |
| 3) other adverse effects like those of epinephrine |
| may develop |
| |
| |
| |
| Fray alot for US |
| |
| |
| 1177777 |
| |
| |
| |
| |



I non Catecholamine

1 phenyl ephrine

2 metho xamine

3 donidine

a metapraterend

[] Shenyl Ephrine (synthetic)

PACTO

-more Potent &1> 42

- Vaso Constricto

- 75BP ADBP

MiB has no Direct
effect on heart but

+ reflex brady Cardia -When Takon Parenterally B Therapeutical use

Topically masal Engostant

LoopThalmic prep

Tomake Active mydriasis

responsible to light

Constrictor Muscule

C. Adverse effect

Dhy Per Tensier

2 Head ache

3 Cardiac irrigulorities

Sis orph

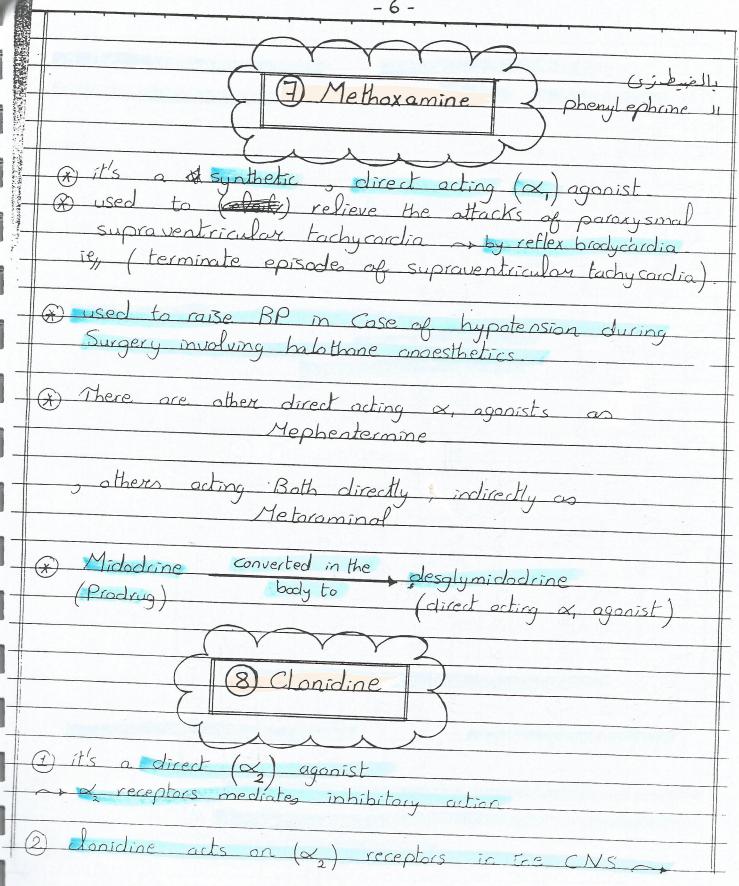
M.B Phonyl ephrine is non Catechelamine so resiste CONT.

| -5- |
|--|
| ایه القرق ده یا عمرات مه ما تکام دری و تفومنا |
| Mychicasis Joria m (x) the contractor, blood on varial Hs (1) |
| Mensis John Contracting Johnson constructor Ms (1) |
| John John Jean All Mydriasis II to |
| Blackens 1 I I I I I I I I I I I I I I I I I I |
| Blocking Josi II I persone Mydriasis John de lit is receptor II |
| Labor constr. Ms II an soil eye II trèse tre a l' vespond frie frie de la fite fin for soille en Blocking passive Mydriasis or Mydrinsis II comin en majoril |
| سيارب عكم وطت مه لو مني ذام تعالا لنا واحتا ز ظييطاه. |
| 3) this drug is used to raise bland pressure in case of hypotensian to terminate episodes of supraventricular tachycardia (rapid heart arising from A.V. Junta, a stria) |
| Adverse effects ? |
| D large doses can cause & hypertensive headache |
| Cordiac irregularities. |
| Phenylephrine isn't a catecholomine derivative is it's not a substrate for catechol O Methyl trastense |
| (COMT) |

Phenyl Ephrine J. G. [2] methoxamine · SynThelic ? Adverse effect B Thorapeutial uses A Ada -hypertension - Headach 1 II of hypotensian · X1 > X2 - Cardiac irrigularities · house no Direct effect during surgery & haloThane on heart but 4 anesThetics reflex brady Cardia Orelieve Lattacks of Parolyomal Supra ventricular Tachy Cardia Direct · Terminate episodes af NB Selective X, Agenist.

NR derection N.B direct and in Direct & selective Aganist [phenyl Ephenine MeTaramineL 2 MeThoxamine 3 Me phentermine (4) Mid odrine (Prodrug)

deraly midadrine



Clonidine
Direct & Agenist (mediated inhibitory Actin)

No R found in CNS in vasameter Center - Inhibatin - Inhiba

- Similar Iso proterend But resist cout

- Act on B R - Bronchock late
Soll of asthma & broncho spasm.

NB Selective B2 Agonist

13 - Sal butamal

| in the Vasamotor centre causing its inhibiting |
|---|
| resulting in vasodilatation + PR hypotension |
| |
| Vosantor II le Loginio CNS II de la Cil en Cyt de la Contre Centre |
| contractor of B.V. Il as Eligion on of less to a Company of the start |
| hypotension Joseph PR II Jean Clist on Vasadilatato, Joseph |
| hypertension I glis api Gan ji |
| |
| 3) it can minimize the symptoms that accompany the |
| those symptoms are hypertension mainly |
| |
| |
| 9 Meta proterend |
| |
| |
| although it resembles isoproterend > {But} it's not |
| a catecholomine : |
| 1 |
| imarquene k a receptors causing Branchadilaton, |
| airuny tuncto |
| so used in asthma treatment of & rever branchosposon |
| (Terbutatine), By more selective against with larger duration, of |
| action & Browneditator, recise uterme contractor, |
| in Memorile 11. |
| [Salbuteral] [Salbutamal] the same as Terbutatine used as inhalant to relieve bronchospasm. |
| (18) |
| |

B in Direct Acting Agenist (in Direct Symm, Datrominities)

W > Trelease of Neurotranomiller from Vericles -> effect

Prelease of NE from Presynaptic Terminals (endogenous NE)

N & Don't not directly on Post synaptic

ex

O Amphelamine

- TNE
- Act α → 182
- Act β → 1000

- Abuse
- Uses

O III of De pression

O 11 ~ Norcolepsy

3 Apetite control
-C-I

inpregnancy

Teratificanic

Tyramine

-bnot used clinically

-b found in fermented food

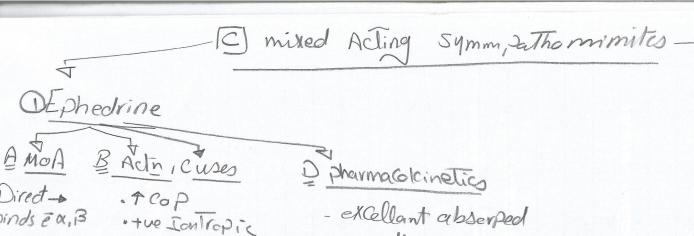
mainly oxidised by monamine MAO

Thypertension - Arrythema.

direct acting advenergic aganists II of trada trata a culin bout in Il licht receptors Il de Char on Jan Il alah Il Gue Natural Neurotransmilterleil effect vesides Il de care all indirect adrenergic ognistall ig Trip jagle effect II rejia Natural neurotransmitterall etc. release II 1950 Indirect Acting Adrenergic 1 Agonists They Cause to of novepinephrine released from presynaptic terminal ie, endogenous NF.

They don't act directly on postsynaptic receptors They include ? 1) Amphetamine (A) it acts by & release of catecholamines so + BP by acting on x receptors of BP by + heart activity by acting on Freceptors Tit has CNS stimulatory effect or is often mistaken by day abusers

| lar. | a) it can be used in treatment of 8 |
|------|---|
| | . (1) depression (2) narcalepsy Culville El culval |
| | 3 spetite control (1) children hyperactivity (5) adjanting (50 |
| | (3) openie control (4) Children ruffieldictivity (31), 527/72 (3) |
| | a should be avoided during pregnancy due to its effects on |
| A | should be avoided during pregnancy due to its effects on fetus development is, teratogenic wiell & classification |
| | |
| | |
| | |
| | 2 Tyramine |
| | |
| | |
| | ., |
| | its not clinically used but found in fermented food on ripe cheese, wine |
| | as ripe cheese, wine |
| | |
| - | * Normally, it's exidized by MAO |
| | if patient is taking MAO inhibitors it can cause |
| | serious vosapressor episodes (vosaconstrictor, > hypertensive |
| | Crīsīs) |
| | خام آر م |
| ì | اً و مسكلة. |
| | ie aque. |
| P | Indirect adrenergic aganists II liplia lia lo S |
| | Mixed advenergie agnists II og agonists II va gai po T i agai lilai en |
| n I | indirect (ditte Soo direct little was |
| | |
| | Mixed acting Advenergic |
| | Mixed acting Advenergic |
| | 11gods S |
| B | Foredine Metarominal |
| R | Ephedrine Metaraminal |
| 4 | |



crally

- Penetrale BBB

as They are

· eliminated

- resist MAO. COMT

non Catechol amine

unchanged in wrine.

OE phedrine

· + ve chrenotrapic

(+ fatigue -sleep)

Dot Contractor of skeletal

3. Bronchodilater -

chronic asma only

Or Im Proves of hlete

Performance

5. nast congestant

w ky ??? as prophylactie

gravis 2222

muscule tantichelin.

esterase in myasthemia

ANE release @ CNS STimulant

·Direct-

binds Ex, 13

oin Direct >

a Metaraminal

- like norepinephrine in Ach

-III of shock

- III of hypotension

When NE, Dopamine I-V injus 6 impesible?

-SI-V as single dose

-> mild vasa Constricta

-> + COP - PACTIVELY of heart

| ناه في ا | a mechanism of acta, |
|----------|---|
| Plant | Alkaloid (1) Ephedrine (2) usea. |
| Phomolia | عادل المارية على المارية ع المارية على المارية على الم |
| 5 | المناكم بند إزا |
| (a) m | echanism of actn, 8 |
| | |
| * it | can 1 the release of catecholomines (NE) from |
| pre als | synaptic neurons o it can Bind directly to α , β receptors |
| Ha | o it can Bind directly to a, B receptors It's why we call it Mixed ading advenergic aganist |
| | |
| (b) Ph | parmacoKinetics: |
| | |
| | excellent absorpting orally netrates BBB reaches CNS |
| (x) (t) | is not a catechol so not affected by COMT, MAD |
| 00 | has longer duratry of actry than (NE) |
| X El | iminated unchanged in urine as its not affected by |
| | |
| | |
| T C H | ctions 8 |
| () it | 1 both systolic, diastolic BP by 1 vasoconstrute, (x,) |
| , 4 | cardiac stimulaton, (B,) |
| 1 Mild | CNS stimulato, ~ taleitness, + fatigue, prevent sleep |
| | |

| 3 Enhances contractility, improves motor functor, in Myasthenia gravis - especially if used with anticholinesterases |
|---|
| |
| Salcil (s) myasthenia gravis JI SI3 |
| skeletal Ms 11 3 min reloxator, alla Cib (s) and Cit |
| Ach II soil anticholinesterases (5) (1) bestit is |
| Cypsell mig contractility II 19719 Neuromuscular Junty V de |
| |
| a) it produces Bronchoditaton, se But it's less potent than |
| according isoprotered in this effect, Slower |
| e it's Just used prophylactically (a lad) in case of chronic |
| asthma to prevent attacks en it's not used in acute asthma analy chronic |
| 30 Il's not used in dance usining |
| 15 improves athlete performance |
| 6 Banned in (olympic games) classiff à zinia and mille |
| |
| |
| 1 d Uses ? De Si Cil d actor Man extinit dos |
| The used prophylactically in chronic asthma treatment |
| 1 to raise blood pressure in Coses of hypotension 1 and all decongestant and due to its local vasaconstricter acting |
| But the clinical use of ephadrine is to due to presence of more potent drugs with fewer adverse effects. |
| |

*10 Cally symmpathomimitics For nasal mucosal membrane, eye ex 1. oxyméla Joline 2- xylo méla Joline 3- propyl hetedrine * orally symmiathomimities For relief of masaf Congesting I phenyl Ephrine 2) Pseud Ephedrine 3) phenyl propanolamine supress & used as have boome Tisked haemerrhagic

Slock risboroup Pharma Colgicul effect Appetite à OTC of Ephedrine but mechanism HONS Stimulain diff from bamphetamine

